

Mississippi Emergency Medical Services for Children

Five-Year Plan Goals and Objectives 2002-2007



Executive Summary

An estimated 30 million children and adolescents, nationwide, need emergency care each year¹. Injury alone claims the life of more children ages 1 – 19 than all other causes combined and nearly 21,000 additional deaths occur because of serious illness and other life threatening disorders². Statistics like these compel us to ask how can we prevent these emergencies from happening, and when prevention fails, how can we ensure the best possible care for every child?

Providing optimum emergency pediatric care in our EMS system demands a holistic approach. Specific training is needed for professionals throughout the continuum of care, from emergency medical technicians (EMTs) and paramedics, to emergency department personnel, pediatricians, and school nurses. Hospitals and ambulances must consistently offer appropriate sized equipment to accommodate a variety of child specific ages and sizes, and healthcare professionals must know how to deliver special medications and appropriate drugs. Prevention activities are also necessary to reach out and educate parents, teachers, and even children on how to avoid and prepare for emergencies.

This five-year plan outlines goals, objectives and tasks aimed at improving the pediatric components of the Mississippi Emergency Medical Services. This plan will provide a guide for ongoing EMSC activities. The objectives set forth in this document are based on the National Emergency Medical Services for Children Five-Year Plan 2001-2005 and are designed to address our statewide EMSC priorities. Achieving institutionalization of EMSC initiatives within Mississippi EMS and the Mississippi Trauma Care System will continue to be an essential and integral element of this process.

¹ Institute of Medicine, Committee on Pediatric Emergency Medical Services. Durch JS, Lohr KN, Eds. Institute of Medicine Report: Emergency Medical Services for Children. Washington, DC: National Academy Press; 1993.

² Ibid.

History of EMSC

The Emergency Medical Services for Children (EMSC) Program is a federal-funded initiative designed to reduce child and youth disability and death due to severe illness or injury. In 1984, the United States Congress approved and funded the National EMSC program to stimulate the organization of EMS systems to respond to the needs of children. At present, all 50 states have received funding through the EMSC Program. The EMSC Program is jointly administered by the U.S. Department of Health and Human Services through the Health Resources and Services Administration's Maternal and Child Health Bureau and the U.S. Department of Transportation's National Highway Traffic Safety Administration.

EMSC is the only Federal program that focuses on improving the quality of children's emergency care. It builds upon existing Emergency Medical Services (EMS) systems, which initially focused on adult emergency care with little attention paid to the special needs of children.

The goals of the EMSC Program are to ensure that state-of-the-art emergency medical care is available for ill or injured children and adolescents, to ensure that pediatric service is well integrated into an emergency medical services system, and to ensure that the entire spectrum of emergency services - including primary prevention of illness and injury, acute care, and rehabilitation - are provided to children and adolescents.

To reach its goals, the EMSC Program provides grants to states to improve and enhance pediatric emergency care. Three categories for grant funding are available - state systems grants for planning, implementing, and partnership for sustaining EMS and child health system improvements within the State.

The National EMSC program encourages states to implement programs and initiatives that will ensure appropriate emergency care capabilities and resources are in place across the continuum of care in order to meet the needs of the seriously ill or injured child.

Mississippi EMSC

In 1997, the Mississippi State Department of Health, Division of Emergency Medical Services received federal EMSC funding and established the Mississippi EMSC program. A comprehensive statewide needs assessment provided a wealth of information that was instrumental in defining the needs of pediatric and adolescent children in Mississippi. A finding from this needs assessment, which was completed in 1998, identified a need for a comprehensive coordination of pediatric safety initiatives to all areas of the state. It was concluded that many areas in the state did not have access to available pediatric safety programs due to lack of funding, personnel and equipment. Another finding from the needs assessment identified the need for additional advance pediatric education courses to be made available across the state. Again, the lack of funding, personnel and equipment made these courses unavailable to many areas of the state.

Mississippi EMSC Accomplishments

The comprehensive statewide needs assessment was instrumental in identifying a variety of pediatric emergency care needs within Mississippi and provides the foundation for the establishment of the Mississippi EMSC program. Activities that have been implemented since the inception of the Mississippi EMSC program include:

- Establishment of the position of EMSC Program Manager within the Mississippi State Department of Health, Division of Emergency Medical Services
- Establishment of a formalized state EMSC Coalition
- Implementation of the Pediatric Education for Prehospital Professionals (PEPP) course within the state. Courses were provided at ten locations across the state with a total of 25 instructors certified to teach PEPP (see attachment 1): to date, over 1500 participants have been trained in PEPP. The course was provided at no cost to the participants
- Implementation of the Pediatric Basic Trauma Life Support Course (PBTLS) within the state. Courses were provided across the state at several locations (see attachment 2). To date, over 1700 participants have been trained in the course. The course was provided at no cost to the participants

- Collaboration with the Mississippi Regional Poison Control Facility to collect pediatric specific poison data. This data is submitted to the Division of EMS for analysis.
- Implementation of a comprehensive school-based injury prevention curriculum called Risk Watch. This curriculum, developed by the National Fire Protection Association, has been implemented in 20 schools across the state.
- Integration of pediatric content into the Mississippi EMS Rules and Regulations.

These accomplishments have set the foundation of the Mississippi EMSC program. This five-year plan will guide the program efforts over the next several years and build upon the activities implemented to date. Mississippi EMSC will continue to strive to maintain already accomplished initiatives and work to sustain similar achievements in other essential areas of childhood emergency care and injury prevention.

Mission Statement

The mission of the Mississippi Emergency Medical Services for Children Program is to prevent and reduce childhood, adolescent, and youth death and disability resulting from illness and injury. Also to provide continued pediatric education to pre-hospital and hospital professionals to ensure that each child, adolescent and youth injured in Mississippi receives the best possible care.

Goals

Goal 1: Include Pediatric Issues in all Aspects of EMS and Trauma System Development.

Goal 1 Objectives:

- Increase statewide EMSC promotional activities
- Increase the number of hospitals in the state that have the essential equipment and resources for the stabilization of ill and injured children
- Increase the number of hospitals that have inter-facility transfer agreements AND guidelines for ill and injured children
- Establish a pediatric representative on the Mississippi EMS Advisory Council and Mississippi Trauma Advisory Committee
- Support existing community outreach and prevention partnerships

Goal 2: Expand Availability of Pediatric Emergency Care Education Programs.

Goal 2 Objectives:

- Increase the availability of Pediatric Emergency Care Education Programs
- Increase the number of patient care providers that receive pediatric specific education
- Research additional pediatric emergency care education programs for inclusion into the Mississippi EMSC Program

Goal 3: Improve Data Collection and Quality Improvement Systems, Data Analysis and Research in EMSC.

Goal 3 Objectives:

- Define minimum pediatric performance improvement indicators that will measure system performance throughout the state
- Define data sets that can be linked to include pediatric information

- Increase research activities related to pediatric issues
- Analyze data to evaluate the outcomes of specific interventions in the pediatric populations

Goal 4: Develop and Implement a Comprehensive Pediatric Safety Program.

Goal 4 Objectives:

- Increase pediatric safety programs by increasing collaboration with organizations involved in pediatric safety
- Increase public and health care professional's awareness of pediatric safety using statewide resources
- Expand the availability of safety programs throughout the state
- Evaluate available pediatric safety programs for inclusion in the Mississippi EMSC Program

Goal 5: Promote Public Awareness of Pediatric Issues in EMS and Trauma System Activities.

Goal 5 Objectives:

- Assist in educating the public about the availability, location, access and appropriate use of emergency services
- Promote programs that response to family needs in emergency situation
- Increase public awareness related to pediatric issues and available programs

**MISSISSIPPI EMERGENCY MEDICAL SERVICES FOR CHILDREN
FIVE-YEAR PLAN
2002 – 2007**

GOAL 1: Include Pediatric Issues in all Aspects of EMS and Trauma System Development		
ACTIVITIES	RESPONSIBLE PARTIES	TIMEFRAME FOR COMPLETION
Hire a full-time EMSC Coordinator to coordinate EMSC activities and the continued development of the Mississippi EMSC Program	EMSC Program Manager	2002
Review Federal, State, County and Local Government programs that may collaborate with the EMSC Program.	EMSC Program Manager	2002
Re-establish the Mississippi EMSC Coalition to include organizations interested in EMSC Activities. One representative from each trauma care region will be appointed to the Coalition.	EMSC Program Manager	2002
Build and support alliances with businesses and community leaders to promote EMSC issues.	EMSC Program Manager EMSC Coalition	2003
Research number of Pediatric Referral Centers for Hospitals in the state.	EMSC Program Manager	2003
Assist hospitals to establish transfer agreements with pediatric referral centers.	EMSC Program Manager	2003
Encourage the development of legislation to	EMSC Program Manager	2007

require that a pediatric representative be appointed to the EMS Advisory Council and the Mississippi Trauma Advisory Committee.	EMSC Coalition	
Establish collaborative efforts with community outreach and injury prevention organizations.	EMSC Program Manager EMSC Coalition	2003
Develop and implement an EMSC Web site to promote EMSC activities throughout the state.	EMSC Program Manager	2002

Goal 2: Expand Availability of Pediatric Emergency Care Education Programs		
ACTIVITIES	RESPONSIBLE PARTIES	TIMEFRAME FOR COMPLETION
Conduct train-the-trainer programs for Pediatric Education for Prehospital Professionals (PEPP) Course	EMSC Program Manager	2003
Utilize the EMSC web site as a mechanism for posting pediatric education courses offered throughout the state.	EMSC Program Manager	2002
Promote PEPP and PBTLS at State EMS conferences	EMSC Program Manager	Ongoing
Utilize the EMSC National Resource Center's clearinghouse to evaluate additional pediatric emergency care courses.	EMSC Program Manager	Ongoing

Collaborate with each of the seven trauma care regions' education committees to promote education opportunities within the regions.	EMSC Program Manager Trauma Care Regions	Ongoing
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Goal 3: Improve Data Collection and Performance Improvement Systems, Data Analysis and Research in EMSC.		
ACTIVITIES	RESPONSIBLE PARTIES	TIMEFRAME FOR COMPLETION
Develop a standardized process for indicator and benchmark development	EMSC Program Manager EMSC Coalition	2003
Identify levels of care to be evaluated by the PI process.	EMSC Program Manager EMSC Coalition	Ongoing
Research current literature for EMSC benchmarks.	EMSC Program Manager EMSC Coalition	Ongoing
Develop indicators in collaboration with system participants, including EMS providers and hospitals.	EMSC Program Manager EMSC Coalition	2004
Identify potential agencies and organizations that may be interested in linking databases.	EMSC Program Manager EMSC Coalition	Ongoing
Identify common patient identifiers, processes for linkages, access and security.	EMSC Program Manager EMSC Coalition	2005
Select appropriate databases for linkage and develop EMSC database linkage plan.	EMSC Program Manager EMSC Coalition	2006

Included EMSC database linkage plan in the annual EMS and Trauma report.	EMSC Program Manager EMSC Coalition	Ongoing
Identify pediatric specific interventions to be evaluated.	EMSC Coalition	2004
Include EMSC data points in MEMSIS and Trauma Registry software.	EMSC Program Manager EMSC Coalition	Ongoing
Establish a Performance Improvement (PI) Work Group to analyze outcome data and make appropriate recommendations.	EMSC Program Manager EMSC Coalition	2005
PI Work Group will provide for ongoing selection and review of pediatric specific interventions and make appropriate recommendations based on data review.	EMSC Coalition	Ongoing

GOAL 4: Develop and Implement a Comprehensive Pediatric Safety Program		
ACTIVITIES	RESPONSIBLE PARTIES	TIMEFRAME FOR COMPLETION
Develop broad-based collaborative efforts with organizations that have pediatric safety interests.	EMSC Program Manager EMSC Coalition	2003
Research various pediatric education opportunities related to safety education and accident prevention.	EMSC Program Manager EMSC Coalition	2003
Establish a mobile pediatric safety unit to provide pediatric safety programs, curriculums, courses and materials throughout the state.	EMSC Program Manager	2002

Collaborate with each of the seven trauma care regions to develop and implement pediatric specific safety programs.	EMSC Program Manager EMSC Coalition Trauma Care Regions	2002
Establish an EMSC clearinghouse for pediatric safety information and materials.	EMSC Program Manager EMSC Coalition	2004
Utilize the EMSC web site as a mechanism for posting pediatric safety courses, programs and seminars offered throughout the state.	EMSC Program Manager	Ongoing

GOAL 5: Promote Public Awareness of Pediatric Issues in EMS and Trauma System Activities		
ACTIVITIES	RESPONSIBLE PARTIES	TIMEFRAME FOR COMPLETION
Promote EMSC activities at various civics clubs. I.e. Kiwanis, Exchange Clubs, etc...	EMSC Program Manager EMSC Coalition	Ongoing
Utilize a Mobile Pediatric Safety Mobile to promote public awareness of pediatric issues.	EMSC Program Manager	2002
Conduct a request for proposal for a comprehensive public relations campaign regarding EMSC activities.	EMSC Program Manager EMSC Coalition	Ongoing
Develop and establish a public relations campaign addressing ongoing EMSC activities.	EMSC Program Manager EMSC Coalition	2003

Pediatric Education for Prehospital Professional

A map of the United Kingdom, specifically Great Britain, divided into counties. The map is color-coded by region: orange for the north, purple for the northeast, green for the west, pink for the south, blue for the southwest, and brown for the southeast. Each county contains a small green circle, likely representing a capital or a significant city. The map is oriented with the north at the top.

Attachment 2

Pediatric Basic Trauma Life Support Course

Site Locations



